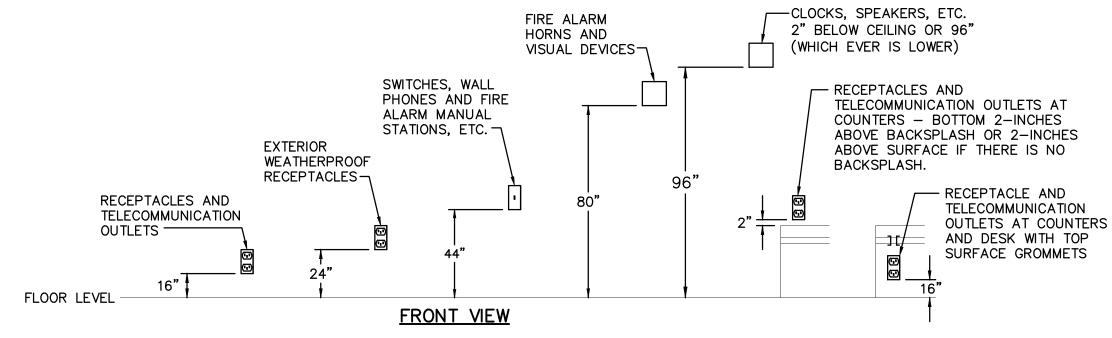
	SWITCHES	DLS LEGEND
Sa	SINGLE POLE SWITCH, LETTER INDICATES	S SWITCH LEG, 'K' INDICATES KEY TYPE
S _D	DIMMER SWITCH	
	OCCUPANCY SENSOR - WALL MOUNTED	
	LIGHTING	
0	FLUORESCENT CEILING LUMINAIRE	
Ю	WALL MOUNTED LUMINAIRE	
₽	EMERGENCY BATTERY PACK	
	POWER	
\(\phi\)	DUPLEX RECEPTACLE	
	MULTI-OUTLET ASSEMBLY	
_	LIGHTING & APPLIANCE PANELBOARD	
J	JUNCTION BOX	
	FIRE ALARM	
F	FIRE ALARM MANUAL STATION	
⊙ ⊲	FIRE ALARM AUDIBLE/VISUAL UNIT	
	TELECOMMUNICA	TION
⊲2	DATA OUTLET	NUMBER BY SYMBOL INDICATES QUANTITY OF JACKS. THE NUMBER ZERO INDICATES EMPTY OUTLET BOX, BLANK PLATE AND CONDUIT.
	ABBREVIATION	S
С	CEILING MOUNTED	
G	GROUND-FAULT - CIRCUIT INTERRUPTER	DEVICE
WP	WHEATHER-PROOF	
	MISCELLANEOU	IS
<u></u>	J-BOX AT WALL WITH FLEXIBLE RACEWAY	EXTENDED FROM WALL - POWER
<u>0</u> ←<	J-BOX AT WALL WITH DATA CABLE EXTEN	DED FROM WALL
	HOME RUN TO PANEL	
	ELECTRICAL CIRCUIT	
<u> </u>	UNSWITCHED LIGHTING CIRCUIT	
A	GENERAL ELECTRICAL KEYNOTE - SEE CO	DRRESPONDING NOTES
X	MECHANICAL EQUIPMENT WITH ELECTRIC SEE MECHANICAL / ELECTRICAL COORDIN	to the contract of the contrac

GENERAL ELECTRICAL NOTES

- ALL CONDUITS IN NEW WALLS, EXISTING STUD WALLS, OR IN AREAS WITH SUSPENDED CEILINGS SHALL BE INSTALLED CONCEALED.
- BRANCH CIRCUIT AND SPECIAL SYSTEMS WIRING FOR DEVICES ON EXISTING WALLS OR EXPOSED CEILINGS WHERE RACEWAY CANNOT BE CONCEALED SHALL BE INSTALLED IN SURFACE METAL RACEWAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, PAINTING, REPAIRING OR REPLACEMENT OF ALL WALLS, CEILINGS, OR OTHER BUILDING ELEMENTS WHICH ARE DISTURBED AS PART OF THE DEMOLITION OR INSTALLATION OF ELECTRICAL
- REFER TO MECHANICAL/ELECTRICAL COORDINATION SCHEDULE FOR ADDITIONAL
- A CABLE OR RACEWAY TYPE WIRING METHOD, INSTALLED IN EXPOSED OR CONCEALED LOCATIONS NEAR METAL-CORRUGATED SHEET ROOF DECKING, SHALL BE INSTALLED AND SUPPORTED SO THE NEAREST OUTER SURFACE OF THE CABLE OR RACEWAY IS NOT LESS THAN 6 INCHES FROM THE NEAREST SURFACE OF THE ROOF DECKING. EXCEPTION: RIGID METAL CONDUIT AND INTERMEDIATE METAL CONDUIT SHALL NOT BE REQUIRED TO MAINTAIN THIS CLEARANCE.
- LABELING FOR PANELBOARD DIRECTORIES, FIRE ALARM PANEL PROGRAMMING, ETC. SHALL USE ROOM NUMBERS ASSIGNED BY OWNER AND NOT ROOM NUMBERS LISTED ON DRAWINGS. LABELS ON PANELBOARD DIRECTORY SHALL INCLUDE A DESCRIPTION OF LOAD SUCH AS LIGHTS, RECEPTACLES, MECHANICAL UNIT LOCATIONS, ETC.
- KEYNOTES FOR OCCUPANCY SENSORS SHOWN ON THE DRAWINGS INDICATE ONLY THE ROOM/AREA TO BE CONTROLLED BY THE SENSORS. PROVIDE SENSORS AND RELATED EQUIPMENT AS REQUIRED FOR COMPLETE COVERAGE AND SWITCHING ARRANGEMENTS AS SHOWN ON DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- MULTIWIRE BRANCH CIRCUITS AS DEFINED BY THE NATIONAL ELECTRICAL CODE (CIRCUITS WITH COMMON NEUTRAL) SHALL NOT BE USED. EXCEPTION: WHERE ÀN EQUIPMENT MANUFACTURER RÉQUIRES A MULTIWIRE BRANCH BRANCH CIRCUIT FOR ONLY ONE UTILIZATION EQUIPMENT AND WHERE ALL UNGROUNDED CONDUCTORS OF THAT CIRCUIT ARE OPENED SIMULTANEOUSLY BY THE BRANCH CIRCUIT OVERCURRENT DEVICE.
- CONNECT ALL EXIT LIGHT FIXTURES AND EMERGENCY BATTERY UNIT FIXTURES TO NEAREST UNSWITCHED NORMAL LIGHTING CIRCUIT SERVING CORRESPONDING AREA.
- THE SPECIFICATIONS LIST ACCEPTABLE WIRING METHODS AND MATERIALS. OTHER WIRING METHODS AND MATERIALS NOT LISTED IN THE SPECIFICATIONS (SUCH AS MC CABLE, ETC.) ARE NOT ACCEPTABLE.



NOTES:
THE MOUNTING HEIGHT SCHEDULE IS INCLUDED TO ASSIST THE CONTRACTOR IN ESTIMATING. HEIGHTS LISTED ARE ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. ALL DEVICE LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DETAILS AND ELEVATIONS. EXACT HEIGHTS SHALL BE OBTAINED FROM THE PROJECT SUPERINTENDENT AT THE TIME OF INSTALLATION.

TYPICAL ELECTRICAL DEVICE MOUNTING HEIGHT



SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR LUMINAIRES, LAMPS AND BALLASTS.

- 1. COLUMBIA, DAY-BRITE, LITHONIA, LIGHTOLIER AND METALUX ARE ACCEPTABLE MANUFACTURERS FOR FIXTURE TYPE INDICATED.
- LIGHTALARMS, CHLORIDE, EMERGI-LITE, HUBBELL, INFINITY, LITHONIA, MCPHILBEN AND SURE-LITES ARE ACCEPTABLE MANUFACTURERS FOR FIXTURE TYPE INDICATED.
- REFER TO DRAWINGS FOR MOUNTING REQUIREMENTS SUCH AS WALL MOUNT, END MOUNT, CEILING MOUNT AND PROVIDE FIXTURES ACCORDINGLY. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.
- VERIFY LAMP COLOR OF EXISTING FIXTURES AND MATCH.
- PROVIDE WITH ADVANCE MARK 10 DIMMING BALLAST.

							COO							
						<u>ABBREVIA</u>								
FLA	FULL LOAD AMPS		С			RTER AND SA	AFETY	2S	TWO SPEED			N1	NEMA 1	
HP	HORSEPOWER			SWITCH				3S	THREE SPEED			N3R	NEMA 3F	
KW	KILOWATTS		СВ	CIRCUI	Γ BREAKER			FV FULL VOLTAGE				N4X	NEMA 4X	(
PH	PHASE		SH	HP RAT	ED SWITCH			NR	NR NON-REVERSING					
V	VOLTAGE		SS	SAFETY	'SWITCH			RE	RE REVERSING					
Е	ELECTRICAL CONTRACTOR		MR		NUFACTURE		RV REDUCED VOLTAGE							
- 1	INTEGRAL WITH EQUIPMENT			RECOM	MENDATION	IS		VFC	VARIABL	E FREQU	JENCY			
M	MECHANICAL CONTRACTOR		NF	NON-FU	ISED									
FOURMENT				ELECTRI	CAL	DISCONNECT					CONTROLLER			
EQUIPMENT				SYSTE	М	FURNISH/		DATING			FURNISH/	TYPE/		DEMARKS
ID	DESCRIPTION	LOAD	٧	PH	PANEL - CIRCUIT	INSTALL BY	TYPE	(AMPS)	FUSE SIZE	ENCL.	INSTALL BY	NEMA SIZE	ENCL.	REMARKS
DS-1A	DUCTLESS SPLIT SYSTEM (INDOOR UNIT)	1.3 FLA	208	1	TR-19	E/E	SH	20	MR	N1	M/M	-	-	
DS-1B	DUCTLESS SPLIT SYSTEM (OUTDOOR UNIT)	22.5 FLA	208	1	TR-23	E/E	SS	60	MR	N3R	M/M	-	-	
DS-2A	DUCTLESS SPLIT SYSTEM (INDOOR UNIT)	1.3 FLA	208	1	TR-27	E/E	SH	20	MR	N1	M/M	-	-	
DS-2B	DUCTLESS SPLIT SYSTEM (OUTDOOR UNIT)	22.5 FLA	208	1	TR-31	E/E	SS	60	MR	N3R	M/M	-	-	
DS-3A	DUCTLESS SPLIT SYSTEM (INDOOR UNIT)	1.2 FLA	208	1	TR-26	E/E	SH	20	MR	N1	M/M	-	-	
DS-3B	DUCTLESS SPLIT SYSTEM (OUTDOOR UNIT)	15 FLA	208	1	TR-30	E/E	SS	30	MR	N3R	M/M	-	-	

- CONTRACTOR SHALL VERIFY/COORDINATE ALL RATINGS FOR EQUIPMENT SUPPLIED BY THE SELECTED MANUFACTURER. WHERE RATINGS ARE OTHER THAN AS NOTED ON MECHANICAL/ELECTRICAL COORDINATION SCHEDULE, DISCONNECTS, MOTOR STARTERS, OVERCURRENT DEVICES AND RELATED REVISIONS SHALL BE PROVIDED ACCORDINGLY. THE CONTRACTOR THAT FURNISHES EQUIPMENT WITH RATINGS OTHER THAN AS NOTED SHALL BE RESPONSIBLE FOR ALL COORDINATION AND COSTS FOR REVISIONS TO ACCOMMODATE SELECTED EQUIPMENT.
- ALL FRACTIONAL HORSEPOWER MOTORS SHALL BE PROVIDED WITH INTEGRAL OVERLOAD PROTECTION.
- HORSEPOWER RATED SWITCHES (SH): FOR 120 V MOTORS LESS THAN 1/2 HP, PROVIDE FUSEHOLDER WITH SWITCH, FUSED PER MANUFACTURER'S RECOMMENDATION AND NEC REQUIREMENTS. FOR 208 VOLT 1-PHASE MOTORS LESS THAN 3/4 HP PROVIDE FUSE HOLDER WITH DOUBLE-POLE SWITCH THAT OPENS BOTH CONDUCTORS OF THE CIRCUIT. RATING OF FUSES SHALL NOT EXCEED 15 AMPS. FOR 120 V MOTORS RATED 1/2 HP OR 3/4 HP, PROVIDE HP RATED TOGGLE SWITCH (WHERE BRANCH CIRCUIT OVERCURRENT DEVICE MEETS NEC REQUIREMENTS FOR SHORT-CIRCUIT PROTECTION) OR FUSED SAFETY SWITCH.
- ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT TO EQUIPMENT AS INDICATED.

	20 VOLT, 3 PHASE, 4 WIRE AMP M.L.O.			• 1	LUSH			_					
AIC:	IC: 10000 AMPS SYM INTEGRAL TVSS												
CCT NO	LOAD DESCRIPTION	LOAD V.A.	REMARKS	Р	AMP SIZE	ø	AMP SIZE	Р	REMARKS	LOAD V.A.	LOAD DESCRIPTION	C(N	
1	PREP ROOM 215, LTG.	200		1	20	Α	20	1		1500	TRAINING ROOM 216, LTG.		
3	TRAINING ROOM 216, RECEPT.	800		1	20	В	20	1		200	OFFICE 214, RECEPT.		
5	TRAINING ROOM 216, RECEPT.	800		1	20	С	20	1		1500	PREP. ROOM 215, COPIER	- 6	
7	TRAINING ROOM 216, RECEPT.	800		1	20	Α	20	1		400	PREP. ROOM 215, RECEPT.	- 8	
9	TRAINING ROOM 216, RECEPT.	800		1	20	В	20	1		800	PREP. ROOM 215, A/V	1	
11	SPARE			1	20	С	20	1		400	TRAINING ROOM 216, RECEPT.	1	
13	SPARE			1	20	Α	20	1		800	TRAINING ROOM 216, RECEPT.	1	
15	SPARE			1	20	В	20	1		800	TRAINING ROOM 216, RECEPT.	1	
17	SPARE			1	20	С	20	1		800	TRAINING ROOM 216, RECEPT.	1	
19	DS-1A	270		2	15	Α	20	1		800	TRAINING ROOM 216, RECEPT.	2	
21	-	-		-	-	В	20	1		400	TRAINING ROOM 216, RECEPT.	2	
23	DS-1B	4680	а	2	40	С	20	1		200	TRAINING ROOM 216, RECEPT.	24	
25	-	-		-	-	Α	15	2		250	DS-3A	20	
27	DS-2A	270		2	15	В	-	-		-	-	28	
29	-	-		-	-	С	30	2	b	3120	DS-3B	30	
31	DS-2B	4680	а	2	40	Α	-	-		-	-	3:	
33	-	-		-	-	В	20	1		400	EXTERIOR RECEPT.	34	
35	SPARE			1	20	С	20	1			SPARE	30	
37	SPACE ONLY					Α					SPACE ONLY	38	
39	SPACE ONLY					В					SPACE ONLY	4(
41	SPACE ONLY					С					SPACE ONLY	4	

a. PROVIDE 2-#8, 1-#10 GRD., 3/4" C. b. PROVIDE 2-#10, 1-#10 GRD., 3/4" C.

11620 ARBOR STREET SUITE 100 OMAHA, NEBRASKA 68144 PHONE: 402.932.0100 FAX: 402.932.1001 www.krsengineering.com COPYRIGHT 2012 This document and the information contained may not be reproduced without the express written permission of KRS Engineering, LLC. Unauthorized copying, disclosure or construction use are prohibited by the copyright law.

VA FORM 08-6231

© 2000 Calvin L. Hinz Architects P.C. These plans are specifically designed for construction by Calvin L. Hinz Architects and are intended for no other purposes. Permission for use of this document in part or whole without written consent of Calvin L. Hinz Architects is

prohibited.

Date



KEVIN VANDER KOLK E-6713 ***********************************
KEVIN VANDER KOLK E-6713

Calvin L. HINZ Architects, P.C. 3705 North 200th Street Elkhorn, Nebraska 68022 Phone:402.291.6941 Fax: 402.291.9193	CLH :
KRS Engineering	

Phone:402.291.6941 Fax: 402.291.9193	
11620 Arbor Street Suite 100 Omaha, Nebraska 68144	Kenneth D. Lathrum & Associates, P.C. 1901 N. 81st Street Omaha, Nebraska 68114 402.391.5861

	BUILDING FIVE			Project Number: 636-12
LECTRICAL COORDINATION	RENOVATE VBA	Building Number: Five		
	VDA I	Lincoln, NE		Drawing Number:
	VDA I			FOC
	Date	Checked by	Drawn by	⊢ ∟ 0.0

February 22, 2012

CLH 2011-25 Office of and Facilities Management



Dwg. 7 of 9